

Title (en)
DEVICE FOR LASERING THE HUMAN EYE

Title (de)
EINRICHTUNG ZUR LASERTECHNISCHEN BEARBEITUNG DES HUMANEN AUGES

Title (fr)
DISPOSITIF DE TRAITEMENT AU LASER DE L' OEIL HUMAIN

Publication
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Application
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Abstract (en)
[origin: WO2012041352A1] The invention relates to a device for cutting the human cornea (45) using a focused laser beam comprising controllable components for adjusting the location of the beam focus, a control computer for controlling said components and a control program for the control computer. Said control program contains instructions that are designed to produce cuts (38, 40, 43) in the cornea according to a predetermined cutting pattern when said instructions are carried out by the control computer. Said cutting pattern defines a cornea bed (42), a flap (36) arranged on the bed (36) and at least one strip of cornea tissue (46) which extends along the flap edge in the region of the peripheral edge of the flap between the bed and the flap. Once the flap is folded away, said tissue strip can be removed and the flap (36) can be folded back onto the surface of the bed (42) in a fold-free, post-ablative manner. The visual damage to microstrips can also be avoided.

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